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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Group Art Unit 3762

In re

Patent Application of

Roberto Beretta, et al.

Application No. 10/053,247

Confirmation No.: 6182

Filed: January 15, 2002

Examiner: Patricia Bianco

"SYSTEMS AND METHODS FOR  
PREPARING AUTOLOGOUS FIBRIN  
GLUE"

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 CFR §1.97(c) and (e)(2)

Mail Stop Amendment  
Commissioner for Patents  
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Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and/or PTO/SB/08B and copies of which are attached. Citation of these references is respectfully requested.

In accordance with 37 CFR 1.97(c) and (e)(2), the undersigned hereby certifies that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this statement.

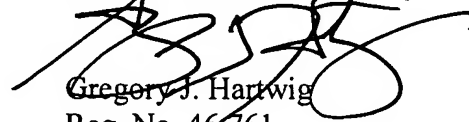
I, Mary A. Kocaja, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date of my signature.

Mary A. Kocaja  
Signature

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No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,



Gregory J. Hartwig  
Reg. No. 46,761

File No. 015445-9001-00

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Substitute for form 1449/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/053,247
				Filing Date	January 15, 2004
				First Named Inventor	Nicholas Grippi
				Group Art Unit	1632
				Examiner Name	Patricia Bianco
Sheet	1	of	6	Attorney Docket Number	015445-9001-00

**U.S. PATENT DOCUMENTS**

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	1,593,814	Vogel	7/27/1926
	4,485,096	Bell	11/27/1984

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

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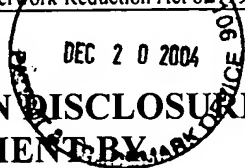
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number		10/053,247	
			Filing Date		January 15, 2002	
			First Named Inventor		Nicholas Grippi	
			Group Art Unit		1632	
			Examiner Name		Patricia Bianco	
Sheet	2	of	6	Attorney Docket Number		015445-9001-00

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc. ), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		Franklin JD, Lynch JB, "Effects of topical application of epidermal growth factor on wound healing", <i>Plastic and Reconstructive Surgery</i> , December, 1979, pgs. 766-770.
		Buckley A, Davidson JM, "Sustained release of epidermal growth factor accelerates wound repair", <i>Proceeding National Academy Science USA</i> , Vol. 82, pgs. 7340-7344, November 1985.
		Sporn MB, Roberts AB, "Polypeptide transforming growth factors isolated from bovine sources and used for wound healing in vivo", <i>Science</i> , Vol. 219, pgs. 1329-1331, 18-March-1983.
		Canalis E, "Effect of Platelet-derived growth factor on DNA and protein synthesis in cultured rat calvaria", <i>Metabolism</i> , Vol. 30, No. 10, pgs. 970-975, October 1981.
		Niewiarowski S, Markiewicz, "Inhibition of the platelet-dependent fibrin retraction by the fibrin stabilizing factor (FSF, factor XIII)", M, <i>Journal of Laboratory and Clinical Medicine</i> , Vol. 81, No.6, pgs. 641-650, May 1973.
		Li AKC, Koroly MJ, "Mechanical and humoral factors in wound healing", <i>British Journal of Surgery</i> , Vol. 68, pgs. 738-743, 1981.
		Niewiarowski S, Millman M, "Potentiation of the thrombin induced platelet release reaction by fibrin", <i>Thrombosis Research</i> , Vol. 9, No. 2, pgs. 181-190, 1976.
		Carroll RC, Gerrard JM, "Clot retraction facilitates clot lysis", <i>Blood</i> , Vol. 57, No. 1, pgs. 44-48, January 1981.

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Substitute for form 1449B/PTO				<b>Complete if Known</b> Application Number 10/053,247 Filing Date January 15, 2002 First Named Inventor Nicholas Grippi Group Art Unit 1632 Examiner Name Patricia Bianco	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Attorney Docket Number 015445-9001-00	
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	Joist JH, Niewiarowski S, "Retention of platelet fibrin stabilizing factor during the platelet release reaction and clot retraction", <i>Thrombos. Diathes. Haemorrh.</i> , Vol. 29, pgs. 679-683, 1973.
	Niall M, Ryan GB, "The effect of epidermal growth factor on wound healing in mice", <i>Journal of Surgical Research</i> , Vol. 33, No. 2, pgs. 164-169, August 1982.
	Cazenave JP, Packham MA, "Inhibition of platelet adherence to a collagen-coated surface by agents that inhibit platelet shape change and clot retraction", <i>Journal of Laboratory and Clinical Medicine</i> , Vol. 84, No. 4, pgs. 483-493, October 1974.
	Niewiarowski S, Stewart GJ, "Effect of ADP and thrombin on fibrin retraction induced by human platelets and fibroblasts", <i>Thromb Diathes Haemorrh</i> , Vol. 34, pgs.316-317, October 1974.
	Niewiarowski S, Goldstein S, "Fibrin clot retraction by human skin fibroblasts: effects of ADP and thrombin", <i>Proceedings of the Society for Experimental Biology and Medicine</i> , Vol. 151, pgs. 253-256, 1976.
	Cohen I, Gabbay J, "Fibrin-blood platelet interaction in a contracting clot", <i>Thromb Diath Haemorrh</i> , Vol. 34, No. 2, pgs. 559, Nov 15, 1975.
	Dhall TZ, Shah GA, "Fibrin network structure: modification by platelets", <i>Thrombosis and Haemostasis</i> , Vol. 49, No.1, pgs. 42-46, 1983.
	Niewiarowski S, Gegoczi E, "Platelet interaction with fibrinogen and fibrin: comparison of the interaction of platelets with that of fibroblasts, leukocytes and erythrocytes", <i>Annals of the New York Academy of Sciences</i> , Vol. 201, pgs. 72-83, 1972.

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			Filing Date	January 15, 2002	
			First Named Inventor	Nicholas Grippi	
			Group Art Unit	1632	
			Examiner Name	Patricia Bianco	
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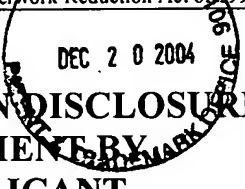
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		Knighton DR, Hunt TK, "Role of platelets and fibrin in the healing sequence: an in vivo study of angiogenesis and collagen synthesis", <i>Annals of Surgery</i> , Vol. 196, No. 4, pgs. 379-388, October 1982.
		Doni MG, Fantin G, "Thrombin-induced calcium and magnesium platelet release and clot retraction", <i>Haematologica</i> , Vol. 60, No. 3, pgs. 286-299, September 1975.
		Jelenska M, Kopec M, "Blood platelets cause retraction of collagen gel", <i>Thrombosis and Haemostasis</i> , Vol. 44, No. 3, pgs. 161-164, 1980.
		Table Of Contents, <i>Thrombosis et Diathesis Haemorrhagica</i>
		Lundblad RL, "A rapid method for the purification of bovine thrombin and the inhibition of the purified enzyme with phenylmethylsulfonyl fluoride", <i>Biochemistry</i> , Vol. 10, No. 13, pgs. 2501-2506, June 22, 1971.
		Chao FC, Tullis JL, "Concentration effects of platelets, fibrinogen and thrombin on platelet aggregation and fibrin clotting", <i>Thromb Diathes Haemorrh</i> , Vol. 32, No. 1, September 30, 1974.
		Solum, "Platelet aggregation during fibrin polymerization", <i>Scandinavian Journal of Clinical &amp; laboratory Investigation</i> , Vol. 18, No. 6, pgs. 577-587, 1966.
		Tashjian, "Platelet-derived growth factor stimulates bone resorption via a prostaglandin-mediated mechanism", <i>Endocrinology</i> , Vol. 111, No. 1, pgs. 118-124, 1982.

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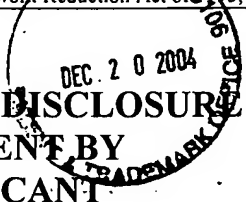
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		Mustard JF, Perry DW, "Factors responsible for ADP-induced release reaction of human platelets", <i>American Journal of Physiology</i> , Vol. 228, No. 6, June 1975.
		Day HJ, Ang G, "Platelet release reaction during clotting of native human platelet-rich plasma", <i>Proceedings of the Society of Experimental and Biological Medicine</i> , Vol. 139, No. 3, pgs. 717-21, March 1972.
		Niewiarowski S, Stewart GJ, "ADP, thrombin and Bothrops atrox thrombin like enzyme in platelet-dependent fibrin retraction", <i>American Journal of Physiology</i> , Vol. 229, No. 3, pgs. 737-745, September 1975.
		Mustard JF, Perry DW, "Preparation of suspensions of washed platelets from humans", <i>British Journal of Haematology</i> , Vol. 22, No. 2, pgs. 193-204, February 1972.
		Packham MA, Guccione MA, "Platelet aggregation and release: effects of low concentrations of thrombin or collagen", <i>American Journal of Physiology</i> , Vol. 225, No. 1, pgs. 38-47, July 1973.
		Niewiarowski S, Thomas DP, "Platelet aggregation by ADP and thrombin", <i>Nature</i> , Vol. 212, pgs.1544- 47, December 31, 1966.
		Thorton JW, Hess CA, "Epidermal growth factor In the healing of second degree burns: a controlled animal study", <i>Burns</i> , Vol. 8, No. 3, pgs. 156-160, 1983.
		Holmsen H, Day HJ, "The blood platelet release reaction", <i>Scandinavian Journal of Haematology (Supplement K)</i> , pgs.3-21, 1969.

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Sheet	6	of	6	Attorney Docket Number		015445-9001-00

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	Rosenthal AR, Harbury C, "Use of a platelet-fibrinogen-thrombin mixture as a corneal adhesive: experiments in sutureless lamellar keratoplasty in the rabbit", <i>Investigative Ophthalmology</i> , Vol. 14, No. 11, pgs. 872-75, November 1975.
	Schulte W, "Centrifuged autologous blood for filling large bone defects: a modification to the autologous blood method", <i>Zentrifugiertes Eigenblut (Centrifuged Autologous Blood) DZZ 24</i> , Vol. 10, pgs. 854-57, 1969.
	Schulte W, "Autologous Blood Filling: A new method in the treatment of major bone defects following oral surgery", <i>Eigenblutfullung Grosserer Knochendefekte DZZ 15</i> , Vol 12, pgs. 910-14, 1960.
	Rosenthal AR, Egbert PR, "Use of Platelet-Fibrinogen-Thrombin mixture to seal experimental penetrating corneal wounds", <i>Graefes Archiv Ophthalmologie</i> , Vol. 207, pgs. 111-115, 1978.
	Silverberg GD, Harbury CB, "A physiological sealant for cerebrospinal fluid leaks", <i>Journal of Neurosurgery</i> , Vol. 46, pgs. 215-19, February 1977.
	Pearl RM, Wustrack KO, "Microvascular Anastomosis using a blood product sealant-adhesive", <i>Surgery, Gynecology &amp; Obstetrics</i> , Vol. 144, pgs. 227-31, February 1977.

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